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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Arlene A. Wise et al. Docket No.: S-100,654  
Serial No. : 10/665,455 Examiner: Delia Ramirez  
Filed : 09/18/2003 Art Unit: 1652  
For : DETECTION OF PHENOLS USING  
ENGINEERED BACTERIA

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR 1.56, 1.97, AND 1.98**

Sir:

37 CFR 1.97(B)

1. ☐ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application; within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or before the mailing date of a first Office Action on the merits, whichever occurs last.

37 CFR 1.97(c)

2. ☒ The Information Disclosure Statement submitted herewith is being filed after three months of the filing of a national application, or the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or after the mailing date of a first Office Action on the merits, whichever occurred last but before the mailing date of either:

1. a Final Action under 37 CFR 1.113, or
2. a Notice of Allowance under 37 CFR, whichever occurs first.

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))

I hereby certify that this correspondence is, on the date shown below, being:

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☒ deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the:  
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Alexandria, VA 22313-1450.

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☐ transmitted by facsimile to the  
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Sharon Ruminer  
Signature

Sharon Ruminer  
(type or print name of person certifying)

Date 6/8/2007

06/12/2007 NNGUYEN1 00000061 122150 18665455  
01 FC:1806 180.00 DA

Also submitted herewith is:

- ☐ a certification as specified in 37 CFR 1.97(e):  
**OR**  
☒ the fee set forth in 37 CFR 1.1.7(p) for submission of an Information Disclosure Statement under 37 CFR 1.9(c).

The documents listed below, copies attached, may be material to the examination of the subject application and is therefore submitted in compliance with the duty of disclosure defined in 37 CFR 1.56.

1. Shingler and Moore, 1994, J Bacteriology, 176:1555;
2. Elliott, 1992 J. Bacteriol. 174:245;
3. Casadaban, 1976 J. Mol. Biol. 104:541;
4. Simons et al., 1987 Gene 53:85;
5. Lee, et al., 1990 Biotechniques 9:676;
6. Dower et al., 1988 Nucleic Acids Res. 16:6127;
7. Schirmer et al., 1997 J. Bacteriology, 179:4:1329;
8. Ng et al., 1995, J. Bacteriology, 177: 6:1485;
9. Willardson et al., 1998, Applied and Environmental Microbiology, 64:3:1006;
10. Cadwell and Joyce, "Mutagenic PCR" in *PCR Primer, a Laboratory Manual*, pp. 583 - 589, Cold Spring Harbor Laboratory Press, 1995, Diffenbach and Dveksler Ed.;
11. Burchhardt et al., 1997, Mol. Gen. Genet. 254:539;
12. Byrne and Olsen, 1996, J. Bacteriology, 178:21:6327;
13. Stemmer, 1994, Nature 370:389;
14. Pavel et al., 1994 J. Bacteriology, 176:24: 7550;
15. Branden and Tooze, *Introduction to Protein Structure*, 1991: 247;
16. Seffernick et al., J. Bacteriology, April 2001, 2405;
17. Witkowski et al., Biochemistry 1999, 38, 11643;
18. Wise and Kuske, Applied Molecular Microbiology, Jan. 2000, 163; and

19. Minshull and Stemmer, US Patent 5,837,458 issued November 17, 1998.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional matter material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art under 35 U.S.C. 102 and 103.

It is requested that the above citations be made of record in the prosecution of this application.

Payment of Fee

☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 12-2150 as described below.

A duplicate copy of this sheet is enclosed.

- ☒ Charge the amount of \$180.00
- ☒ Credit any overpayment
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Respectfully submitted,

Date: June 7, 2007

Reg. No. 30,620  
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Bruce H. Cottrell

Signature of Attorney

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Sheet 1 of 3

Form PTO-1449 U.S. Department of Commerce  
(Modified) Patent and Trademark Office

Attorney Docket No.

Serial No.

S-100,654

10/665,455

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Applicant(s)

Arlene A. Wise et al.

Filing Date

09/18/2003

Group

1652

37 CFR 1.98(b)

**U.S. PATENTS DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER								ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE
		5	8	3	7	4	5	8	11/17/98	Minshull and Stemmer	435	6	05/20/96

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER								ISSUE DATE	COUNTRY	CLASS	SUB CLASS	Translation YES NO	

**OTHER DOCUMENTS** (Including Author, Title, Date, Place of Publication)

	SHINGLER and MOORE, 1994, J Bacteriology, 176:1555
	ELLIOT, 1992 J. Bacteriol. 174:245
	CASADABAN, 1976 J. Mol. Biol. 104:541

EXAMINER:

DATE CONSIDERED:

\*EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No.	Serial No.
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		S-100,654	10/665,455
		Applicant(s)	
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	LEE, et al., 1990 Biotechniques 9:676		
	DOWER et al., 1988 Nucleic Acids Res. 16:6127		
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	NG et al., 1995, J. Bacteriology, vol. 177, no. 6:1485		
	WILLARDSON et al., 1998, Applied and Environmental Microbiology, vol. 64, no. 3:1006		
	CADWELL and JOYCE, "Mutagenic PCR" in <i>PCR Primer, a Laboratory Manual</i> , pp. 583 - 589, Cold Spring Harbor Laboratory Press, 1995, Diffenbach and Dveksler Ed.;		
	BURCHHARDT et al., 1997, Mol. Gen. Genet. 254:539		
	BYRNE and OLSEN, 1996, J. Bacteriology, 178:21:6327		
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	BRANDEN and TOOZE, <i>Introduction to Protein Structure</i> , 1991: 247;		
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